

SABIC Innovative Plastics LNP Thermocomp YF006 TPEE

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyether Ester Elastomer

Material Notes:

LNP THERMOCOMP* YF006 is a compound based on TPEE resin containing Glass Fiber. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-YF006-TPEE.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
	1.441 g/cc	0.05206 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.42 %	0.42 %	23°C / 50% RH; ISO 62
	0.31 % @Time 86400 sec	0.31 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0022 cm/cm	0.0022 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0075 cm/cm	0.0075 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	ASTM D 638
	57.0 MPa	8270 psi	ISO 527
Elongation at Break	10.5 %	10.5 %	ASTM D 638
	10.5 %	10.5 %	ISO 527
Tensile Modulus	2.27 GPa	329 ksi	50 mm/min; ASTM D 638
	3.07 GPa	445 ksi	1 mm/min; ISO 527
Flexural Strength	77.0 MPa	11200 psi	ISO 178
	79.0 MPa	11500 psi	ASTM D 790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.48 GPa	359 ksi	ASTM D 790
	3.09 GPa	448 ksi	ISO 178
Izod Impact, Notched	3.63 J/cm @Temperature 23.0 Â°C	6.80 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	33.0 kJ/mÂ² @Temperature 23.0 Â°C	15.7 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	93.0 kJ/mÂ² @Temperature 23.0 Â°C	44.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	9.00 J	6.64 ft-lb	Multiaxial Impact; ISO 6603
	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	45.7 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	151 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	83.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	152 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	84.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	187 Â°C @Thickness 3.20 mm	369 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	111 Â°C @Thickness 3.20 mm	232 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties	Metric	English	Comments
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